

FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
0942.4800002/RWE/ALSAPPLICATION NO.
09/829,066APPLICANT
Nisson et al.FILING DATE
April 10, 2001GROUP
1634

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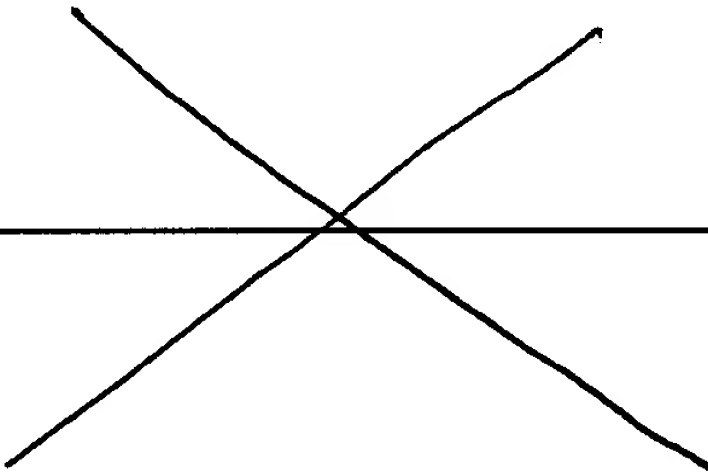

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
W	AA1	4,683,202	07/28/1987	Mullis, K.B.	435	91	10/25/1985
	AB1	4,767,699	08/30/1988	Vary, C.P.H. et al.	435	6	05/02/1985
	AC1	4,800,159	01/24/1989	Mullis, K.B. et al.	435	172.3	12/17/1986
	AD1	5,165,925	11/24/1992	Leong, J.C.	424	88	05/02/1989
	AE1	5,187,085	02/16/1993	Lee, L.G.	435	91	09/28/1990
	AF1	5,350,672	09/27/1994	Oberst, R.D. et al.	435	6	01/22/1993
	AG1	5,484,702	01/16/1996	Ludwig, L.B.	435	6	01/27/1994
	AH1	5,500,356	03/19/1996	Li, W.-B. et al.	435	91.1	08/10/1993
	AI1	5,545,540	08/13/1996	Mian, A.	435	91.2	01/19/1995
	AJ1	5,759,778	06/02/1998	Li, W.-B. et al.	435	6	09/08/1995
	AK1	5,871,929	02/16/1999	Barnes, W.M.	435	6	07/23/1997

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
W	AL1	WO 95/20682	08/03/1995	WIPO			Yes No
	AM1	DE 44 11 588 C1	09/28/1995	Germany			Yes X No
	AN1	DE 44 11 594 C1	12/14/1995	Germany			Yes X No
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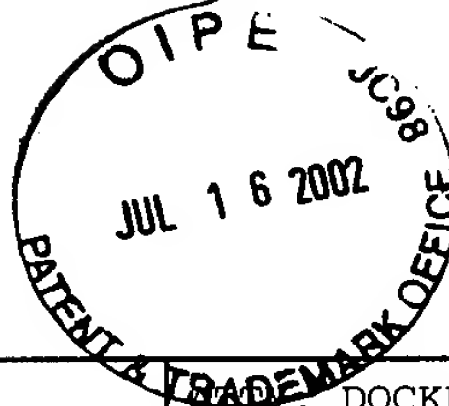
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u	AA2	6,013,488	01/11/2000	Hayashizaki, Y.	435	91.51	07/23/1997
u	AB2	6,268,133 B1	07/31/2001	Nisson, P.E. et al.	435	6	06/24/1998
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

u	AR	2	Baskaran, N. et al., "Uniform Amplification of a Mixture of Deoxyribonucleic Acids with Varying GC Content," <i>Genome Res.</i> 6:633-638, Cold Spring Harbor Laboratory Press (July 1996).
↓	AS	2	Buche, A. et al., "Organic Osmotic Effectors and Chromatin Structure," <i>J. Biomol. Struct. & Dynam.</i> 8:601-618, Adenine Press (1990).
↓	AT	2	Buche, A. et al., "Glycine and other amino compounds prevent chromatin precipitation at physiological ionic strength," <i>FEBS Lett.</i> 247:367-370, Federation of European Biochemical Societies and Elsevier Science Publishers B.V. (Biomedical Division) (1989).

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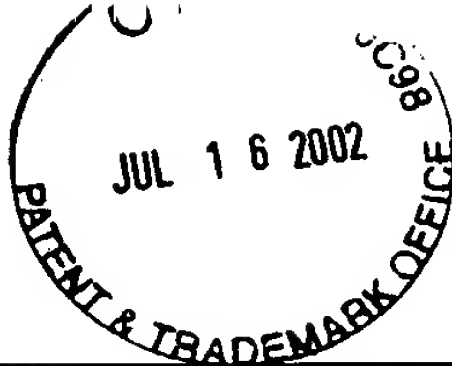
	AR	<u>3</u>	Buche, A. et al., "Effect of Organic Effectors on Chromatin Solubility, DNA-Histone H1 Interactions, DNA and Histone H1 Structures," J. Biomol. Struct. & Dynam. 11:95-119, Adenine Press (1993).
	AS	<u>3</u>	Cánovas, D. et al., "Osmoprotectants in Halomonas elongata: High-Affinity Betaine Transport System and Choline-Betaine Pathway," J. Bacteriol. 178:7221-7226, American Society for Microbiology (December 1996).
	AT	<u>3</u>	Cánovas, D. et al., "Isolation and Characterization of Salt-sensitive Mutants of the Moderate Halophile Halomonas elongata and Cloning of the Ectoine Synthesis Genes," J. Biol. Chem. 272:25794-25801, The American Society for Biochemistry and Molecular Biology, Inc. (October 1997).

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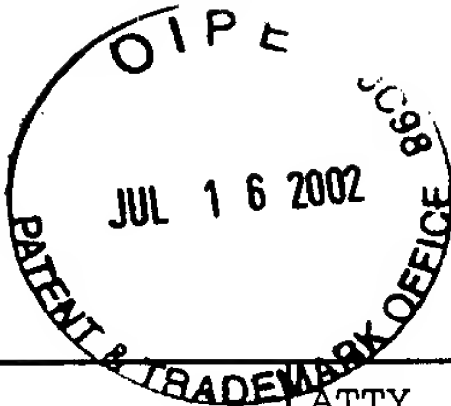
	AR	<u>4</u>	Carninci, P. et al., "Thermostabilization and thermoactivation of thermolabile enzymes by trehalose and its application for the synthesis of full length cDNA," <i>Proc. Natl. Acad. Sci. USA</i> 95:520-524, The National Academy of Sciences (January 1998).
	AS	<u>4</u>	Chambers, S.T. et al., "Dimethylthetin Can Substitute for Glycine Betaine as an Osmoprotectant Molecule for <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> 169:4845-4847, American Society for Microbiology (1987).
	AT	<u>4</u>	Flock, S. et al., "Osmotic Effectors and DNA Structure: Effect of Glycine on Precipitation of DNA by Multivalent Cations." <i>J. Biomol. Struct. & Dynam.</i> 13:87-102, Adenine Press (1995).

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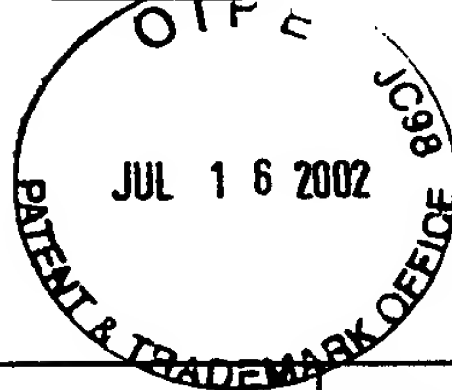
	AR	<u>5</u>	Flock, S. et al., "Dielectric Constant and Ionic Strength Effects on DNA Precipitation," <i>Biophys. J.</i> 70:1456-1465, Biophysical Society (March 1996).
	AS	<u>5</u>	Flock, S. et al., " ²³ Na NMR Study of the Effect of Organic Osmolytes on DNA Counterion Atmosphere," <i>Biophys. J.</i> 71:1519-1529, Biophysical Society (September 1996).
	AT	<u>5</u>	Frackman, S. et al., "Betaine and DMSO: Enhancing Agents for PCR," <i>Promega Notes</i> 65:27-29, Promega Corporation (February 1998).

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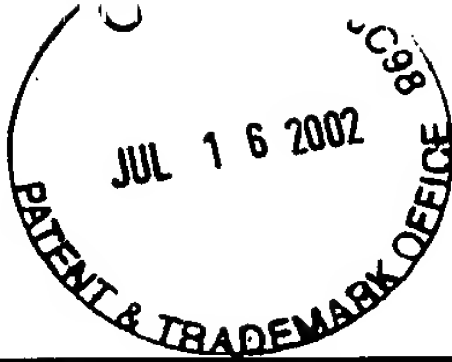
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	AM						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

u	AR	6	Gouesbet, G. et al., "Characterization of the <i>Erwinia chrysanthemi</i> Osmoprotectant Transporter Gene <i>ousA</i> ," <i>J. Bacteriol.</i> 178:447-455, American Society for Microbiology (January 1996).
↓	AS	6	Hengen, P.N., "Optimizing multiplex and LA-PCR with betaine," <i>Trends Biochem. Sci.</i> 22:225-226, Elsevier Science Ltd. (June 1997).
↓	AT	6	Henke, W. et al., "Betaine improves the PCR amplification of GC-rich DNA sequences," <i>Nucl. Acids Res.</i> 25:3957-3958, Oxford University Press (October 1997)

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	AM				Yes No
	AN				Yes No
	AO				Yes No
	AP				Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)					
	AR	7	Hogrefe, H. et al., "Novel PCR Enhancing Factor Improves Performance of Pfu DNA Polymerase," <i>Stratagene Strategies</i> 10:93-96, Stratagene (August 1997).		
	AS	7	Houssier, C. et al., "Effects of Compensatory Solutes on DNA and Chromatin Structural Organization in Solution," <i>Comp. Biochem. Physiol.</i> 117A:313-318, Elsevier Science Inc. (July 1997).		
	AT	7	Iakobashvili, R. and Lapidot, A., "Low temperature cycled PCR protocol for Klenow fragment of DNA polymerase I in the presence of proline," <i>Nucl. Acids Res.</i> 27: 1566-1568, Oxford University Press (March 1999).		
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

u	AR	8	Jakob, R. and Saenger, W., "Reversed-phase ion-pair chromatographic separation of ribulose 1,5-bisphosphate from 3-phosphoglycerate and its application as a new enzyme assay for RuBP carboxylase/oxygenase," <i>FEBS Lett.</i> 183:111-114, Elsevier Science Publishers B.V. (Biomedical Division) (1985).
↓	AS	8	Kondakova, N.V. et al., "Effect of Low-molecular Amines on DNA Conformation and Stability of Double Helix," <i>Molekulyarnaya Biologiya</i> 9:742-745, Maik Nauka/Interperiodica Publishing (1975).
↓	AT	8	English Language Translation for Document AS8, Kondakova, N.V. et al., "Effect of Low-molecular Amines on the Conformation and Stability of the DNA Double Helix," <i>Molekulyarnaya Biologiya</i> 9:742-746, Plenum Publishing Corporation (1975).

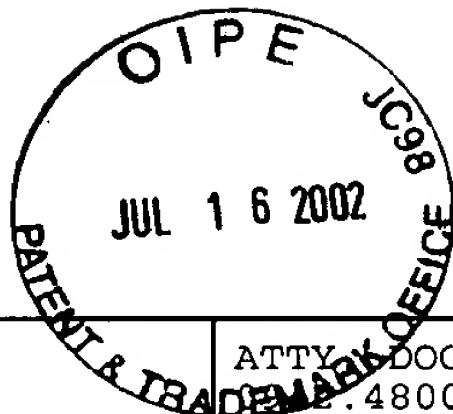
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	2	Landre, P.A. et al., "The Use of Cosolvents to Enhance Amplification by the Polymerase Chain Reaction," in <i>PCR Strategies</i> , Innis, M.A. et al., eds., Academic Press, Inc., San Diego, California, pp. 3-16 (1995).
	AS	2	Le Rudulier, D. et al., "Molecular Biology of Osmoregulation," <i>Science</i> 224:1064-1068, American Association for the Advancement of Science (1984).
	AT	2	Li, C.-J. et al., "Nonprotein Amino Acids from Seeds of <i>Cycas circinalis</i> and <i>Phaseolus vulgaris</i> ," <i>Phytochem.</i> 42:443-445, Elsevier Science Ltd. (May 1996).

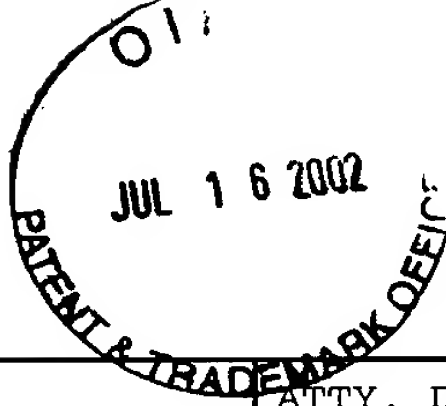
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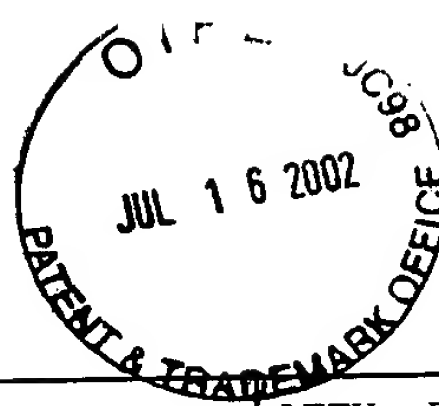
	AR	<u>10</u>	Malin, G. and Lapidot, A., "Induction of Synthesis of Tetrahydropyrimidine Derivatives in <i>Streptomyces</i> Strains and Their Effect on <i>Escherichia coli</i> in Response to Osmotic and Heat Stress," <i>J. Bacteriol.</i> 178:385-395, American Society for Microbiology (January 1996).
	AS	<u>10</u>	Marquet, R. and Houssier, C., "Thermodynamics of Cation-Induced DNA Condensation," <i>J. Biomol. Struct. & Dynam.</i> 9:159-167, Adenine Press (1991).
	AT	<u>10</u>	Mytelka, D.S. and Chamberlin, M.J., "Analysis and suppression of DNA polymerase pauses associated with a trinucleotide consensus," <i>Nucleic Acids Res.</i> 24:2774-2781, Oxford University Press (July 1996).

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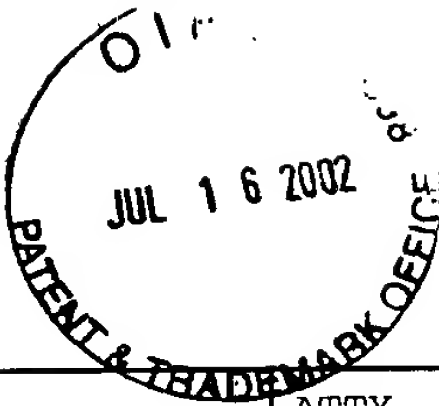
	AR	<u>11</u>	Panaccio, M. et al., "FoLT PCR: A Simple PCR Protocol for Amplifying DNA Directly from Whole Blood," <i>BioTechniques</i> 14:238-243, Eaton Publishing Company (1993).
	AS	<u>11</u>	Rafferty, J.A. and Fletcher, H.L., "Sequence Analysis of a Family of Highly Repeated DNA Units in <i>Stauroderus scalaris</i> (Orthoptera)," <i>Int. J. Genome Res.</i> 1:1-16, World Scientific Publishing Company (1992).
	AT	<u>11</u>	Rajendrakumar, C.S.V. et al., "DNA helix destabilization by proline and betaine: possible role in the salinity tolerance process," <i>FEBS Lett.</i> 410:201-205, Federation of European Biochemical Societies (June 1997).

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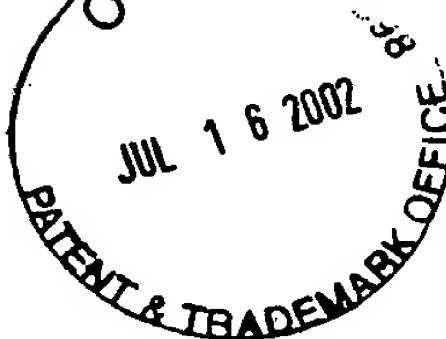
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W	AR	12	Randall, K. et al., "Accumulation of natural and synthetic betaines by a mammalian renal cell line," <i>Biochem. Cell Biol.</i> 74:283-287, National Research Council Canada (April 1996).
↓	AS	12	Randall, K. et al., "Natural and syntheic betaines counter the effects of high NaCl and urea concentrations," <i>Biochim. Biophys. Acta</i> 1291:189-194, Elsevier Science B.V. (December 1996).
↓	AT	12	Rees, W.A. et al., "Betaine Can Eliminate the Base Pair Composition Dependence of DNA Melting," <i>Biochemistry</i> 32:137-144, American Chemical Society (1993).

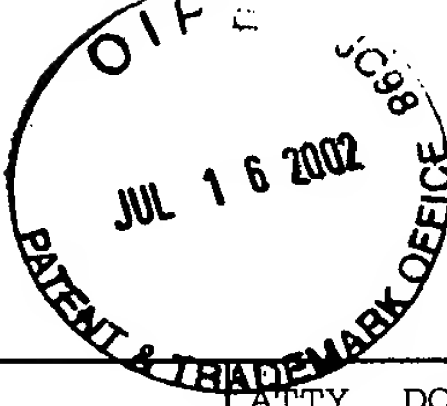
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FORM PTO-1449		ATTY. DOCKET NO. 0942.4800002/RWE/ALS		APPLICATION NO. 09/829,066	
INFORMATION DISCLOSURE STATEMENT		APPLICANT Nisson et al.		FILING DATE April 10, 2001	
		GROUP 1656		JUL 22 2002	
U.S. PATENT DOCUMENTS					
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS
	AA				
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FOREIGN PATENT DOCUMENTS					
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	AL				
	AM				
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)					
	AR	<u>13</u>	Shepard, A.R. and Rae, J.L., "Magnetic bead capture of cDNAs from double-stranded plasmid cDNA libraries," <i>Nucleic Acids Res.</i> 25:3183-3185, Oxford University Press (August 1997).		
	AS	<u>13</u>	Solomons, T.W.G., "Organic Chemistry, 5th Edition", John Wiley & Sons, Inc., New York, N.Y., page 1094 (1992).		
	AT	<u>13</u>	Urdea, M.S., "Branched DNA Signal Amplification," <i>Bio/Technology</i> 12:926, 928, Nature Publishing Company (1994).		
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				8/23/2002	
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09/829,066APPLICANT
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April 10, 2001GROUP
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FOREIGN PATENT DOCUMENTS

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
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	AR	<u>14</u>	Varadaraj, K. and Skinner, D.M., "Denaturants or cosolvents improve the specificity of PCR amplification of a G+C-rich DNA using genetically engineered DNA polymerases," <i>Gene</i> 140:1-5, Elsevier Science B.V. (1994).
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0942.4800002/RWE/ALS

APPLICATION NO.
09/829,066

APPLICANT
Nissan et al.

JUL 22 2002

FILING DATE
April 10, 2001

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

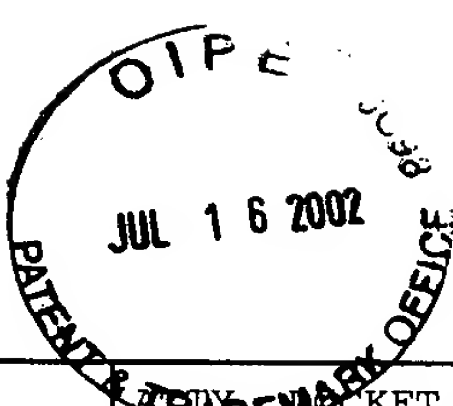
	AR	<u>15</u>	Bioactive Peptides, 1993 Sigma Chemical Company Catalogue, St. Louis, MO, pp. 1028-1034.
	AS	<u>15</u>	Instruction Manual for "GeneTrapper™ cDNA Positive Selection System," Catalog No. 10356-020, GIBCO BRL, Life Technologies, Gaithersburg, MD (July 1996).
	AT	<u>15</u>	Life Technologies product catalogue and reference guide, 1995, page 19-10 and 19-12.

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	JUL 22 2002 TECH CENTER 1600/2900	

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	AP						Yes No

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	AR	<u>16</u>	Dialog File 351, Derwent WPI Accession No. 95-329356/199543, English language abstract for German Patent No. 4411588.
	AS	<u>16</u>	Dialog File 351, Derwent WPI Accession No. 96-021044/199603, English language abstract for German Patent No. 4411594.
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